



PTO/SB/21 (02-04)

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FORM**

*(to be used for all correspondence after initial filing)*

+ attachments

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**Attorney Docket Number**

**ENCLOSURES**      *(Check all that apply)*

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| <input checked="" type="checkbox"/> Fee Transmittal Form                     | <input type="checkbox"/> Drawing(s)                                       | <input type="checkbox"/> After Allowance communication to Technology Center (TC)        |
| <input checked="" type="checkbox"/> Fee Attached                             | <input type="checkbox"/> Licensing-related Papers                         | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences     |
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| <input type="checkbox"/> After Final   | <input type="checkbox"/> Petition to Convert to a Provisional Application | <input type="checkbox"/> Proprietary Information  |
| <input type="checkbox"/> Affidavits/declaration(s)                           | <input type="checkbox"/> Power of Attorney, Revocation                    | <input type="checkbox"/> Status Letter  |
| <input type="checkbox"/> Extension of Time Request                           | <input type="checkbox"/> Change of Correspondence Address                 | <input checked="" type="checkbox"/> Other Enclosure(s) (please Identify below):         |
| <input type="checkbox"/> Express Abandonment Request                         | <input type="checkbox"/> Terminal Disclaimer                              |   |
| <input checked="" type="checkbox"/> Information Disclosure Statement         | <input type="checkbox"/> Request for Refund                               |   |
| <input type="checkbox"/> Certified Copy of Priority Document(s)              | <input type="checkbox"/> CD, Number of CD(s) _____                        |   |
| <input type="checkbox"/> Response to Missing Parts/ Incomplete Application   | Remarks   |   |
| <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | return Postcard   |   |

return Postcard

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm or Individual name	Ted Humphrey		
Signature	<u>Ted J Humphrey</u>		
Date	6/10	2004	

**CERTIFICATE OF TRANSMISSION/MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

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Signature	Ted Humphrey	Date	6/10/2004

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JFW  
PTO/SB/17 (10-03)  
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# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

**TOTAL AMOUNT OF PAYMENT** (\$ ) / **80**

Complete if Known	
Application Number	10/627,669
Filing Date	07/28/2003
First Named Inventor	Ted Humphrey
Examiner Name	
Art Unit	2817
Attorney Docket No.	

## METHOD OF PAYMENT (check all that apply)

Check  Credit card  Money Order  Other  None

Deposit Account:

Deposit Account Number  
Deposit Account Name

The Director is authorized to: (check all that apply)

- Charge fee(s) indicated below  Credit any overpayments  
 Charge any additional fee(s) or any underpayment of fee(s)  
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity	Small Entity	Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee			
1002 340	2002 170	Design filing fee			
1003 530	2003 265	Plant filing fee			
1004 770	2004 385	Reissue filing fee			
1005 160	2005 80	Provisional filing fee			
<b>SUBTOTAL (1) (\$)</b>					

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid
			-20** =	X	=
			-3** =	X	=

Large Entity	Small Entity	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 86	2201 43	Independent claims in excess of 3
1203 290	2203 145	Multiple dependent claim, if not paid
1204 86	2204 43	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent
<b>SUBTOTAL (2) (\$)</b>		

\*or number previously paid, if greater; For Reissues, see above

### 3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 420	2252 210	Extension for reply within second month	
1253 950	2253 475	Extension for reply within third month	
1254 1,480	2254 740	Extension for reply within fourth month	
1255 2,010	2255 1,005	Extension for reply within fifth month	
1401 330	2401 165	Notice of Appeal	
1402 330	2402 165	Filing a brief in support of an appeal	
1403 290	2403 145	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,330	2453 665	Petition to revive - unintentional	
1501 1,330	2501 665	Utility issue fee (or reissue)	
1502 480	2502 240	Design issue fee	
1503 640	2503 320	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	180
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))	
1801 770	2801 385	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	
Other fee (specify)			
*Reduced by Basic Filing Fee Paid		<b>SUBTOTAL (3) (\$)</b>	
		180	

(Complete if applicable)

Name (Print/Type)	Ted Humphrey	Registration No. (Attorney/Agent)		Telephone 727 446 - 0204
Signature	Ted Humphrey	Date	6/10/2004	

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**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

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of

1

**Complete if Known**

Application Number	10/627,669
Filing Date	07/28/2003
First Named Inventor	Ted Humphrey
Art Unit	2817
Examiner Name	

Attorney Docket Number

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
AA	US- 4,357,578		11/2/1982	Yokoyama	
	US-				
AB	US- 4,532,479		7/30/1985	Blauschild	
	US-				
AC	US- 3,497,824		2/24/1970	Goordman	
	US-				
AD	US- 6,486,737		11/26/2002	Carter	
	US-				
AE	US- 6,518,842		2/11/2003	Carter, et al.	
	US-				
AF	US- 4,555,673		11/26/1985	Huijsing, et al.	
	US-				
AG	US- 5,714,906		2/3/1998	Motamed, et al.	
	US-				
AH	US- 5,396,194		3/7/1995	Williamson, et al.	P41, 43, Fig 24C
	US-				
	US-				
	US-				

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> "Number" <sup>4</sup> "Kind Code <sup>5</sup> (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>

Examiner Signature	Date Considered
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Institute for form 1449/PTO**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet

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of

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Attorney Docket Number

Complete if Known

Application Number	10/627,669
Filing Date	07/28/2003
First Named Inventor	Ted Humphrey
Art Unit	2817
Examiner Name	

Sheet	1	of	7	Attorney Docket Number	
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**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	CA	SIGNETICS, NE/SA5230 Low Voltage Operational Amplifier, 6/11/87, 853-0942 89304, Signetics, Sunnyvale, CA	
	CB	TOM DELURIO, et al., 2V op amp rides ..., Electronic Design, 7/25/85, Pages 151 - 155, Electronic Design,	
	CC	SIGNETICS, SE/NE5212 Transimpedance Amplifier, 5/2/1986, Signetics Linear, Sunnyvale, CA	
	CD	KESTER, High Speed Operational Amplifiers, High Speed Design Techniques, 1996, Pages 1-1 => 1-17, ISBN-0-916550-17-6, Analog Devices, Norwood, MA	
	CE	KESTER, High Speed Op Amp Applications, High Speed Design Techniques, 1996, Pages 2-36 => 2-38, ISBN-0-916550-17-6, Analog Devices, Norwood, MA	
	CF	ANALOG DEVICES, OP279 Rail-toRail High Output Current Operational Amp, Oct 1994, Analog Devices, Norwood, MA	
	CG	KESTER, 1992 Amplifier Applications Guide, 1992, Pages 10-11, ISBN-0-916550-10-9, Analog Devices, Norwood, MA	
	CH	ANALOG DEVICES, AD811 High Performance Video Op Amp, Page 2, 11/91, Analog Devices, Norwood, MA	
	CI	ANALOG DEVICES, AD8001 800 Mhz, 50 mW Current Feedback Amplifier, Page 2, 8/95, Analog Devices, Norwood, MA	
	CJ	ANALOG DEVICES, AD8011 300 Mhz, 1 mA Current Feedback Amplifier, Page 2 & 9, 2/95, Analog Devices, Norwood, MA	

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	DA	ANALOG DEVICES, BUF04 Closed-Loop High Speed Buffer, Page 9, 10/93, Analog Devices, Norwood, MA
	DB	INTERSIL, HA-2539 600 MHz, Very High Slew Rate Op Amp, May 2003, FN2896.5, Intersil, Palm Bay, FL
	DC	INTERSIL, HA-2540 400 MHz, Fast Settling Op Amp, July 2003, FN2897.5, Intersil, Palm Bay, FL
	DD	HARRIS/INTERSIL, HFA-0005 High Slew Rate Op Amp, March 1993/Sept 1998, FN2918.1 & FN2918.2, Intersil, Palm Bay, FL
	DE	HARRIS/INTERSIL, HA-5004 100 MHz Current Feedback Amplifier, March 1993, FN2823.1, Harris, Melbourne, FL
	DF	HARRIS/INTERSIL, HFA1130 Ultra High-Speed CFA, March 1993/July 2002, FN3369 & FN3369.3, Intersil, Palm Bay, FL
	DG	INTERSIL, HA-5190/5195 150 MHz, Fast Settling Op Amp, Aug 2002, FN2914.4, Intersil, Palm Bay, FL
	DH	INTERSIL, HA-5102/5104 Dual & Quad 8 Mhz & 60 Mhz Low Noise Op Amp, June 2003, FN2925.8, Intersil, Palm Bay, FL
	DI	HARRIS/INTERSIL, HA-5020 100 MHz Current Feedback Amplifier, 1992, FN845.2, Harris, Melbourne, FL

T<sup>2</sup>

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

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Application Number	10/627,670
Filing Date	07/28/2003
First Named Inventor	Ted Humphrey
Art Unit	2817
Examiner Name	

Attorney Docket Number

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
EA	élan tec, EL2038C 1GHz Op Amp, Nov 1993, élan tec Semiconductor, Milpitas, CA Obsolete - out of print		
EB	élan tec, EL2041C Wideband, Fast Settling, Unity Gain Stable, Op Amp, Nov 1993, élan tec Semiconductor, Milpitas, CA		
EC	élan tec, 1997 Data Book, 1997, élan tec Semiconductor, Milpitas, CA AN #3, DC Restored 100 Mhz Current Feedback Video Amp, pages 8-7 => 8-17		
	AN #23, Practical CFAmp Design Considerations, pages 8-122 => 8-132, By Barry Harvey		
	EL202C, 50 Mhz CFA, pages 2-58 => 2-71		
	EL2030C, 120 Mhz CFA, pages 2-75 => 2-88		
	EL2070C, 200 Mhz CFA, pages 2-137 => 2-150		
	EL400C, 200 Mhz CFA, pages 2-151 => 2-161		
	EL2070C, 150 Mhz CFA, pages 2-163 => 2-176		
	EL2099C, Video Distribution Amplifier, pages 2-219 => 2-232		
	EL2120C, 100Mhz CFA, pages 2-233 => 2-244		
	EL2130C, 85 Mhz CFA, pages 2-245 => 2-252		
	EL2160C, 130 Mhz CFA, pages 2-309 => 2-324		
	EL2166C, 110 Mhz CFA, pages 2-368 => 2-384		
	EL2170C, 70 Mhz/1mA Current Mode Feedback Amp, pages 2-385 => 2-400		
	EL2180C, 250 Mhz/3mA Current Mode Feedback Amp, pages 2-431 => 2-446		

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Substitute for form 1449/PTO				Complete if Known	
				Application Number	10/627,670
				Filing Date	07/28/2003
				First Named Inventor	Ted Humphrey
				Art Unit	2817
				Examiner Name	
Sheet	4	of	7	Attorney Docket Number	

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
	FA	REA SCHMID, OA-25 Stability Analysis of CFAs, May 1995, AN012787, National Semiconductor (originally Comlinear), Santa Clara, CA		
	FB	REA SCHMID, OA-18 Simulation SPICE Models for Comlinear Op Amps, July 1995, National Semiconductor, Santa Clara, CA		
	FC	NATIONAL SEMI, CL109 Low-Power, Wideband, Closed-Loop Buffer, June 1994, National Semiconductor, Santa Clara, CA		
	FD	NATIONAL SEMI, CLC111 Ultra-High Slew Rate, Closed-Loop Buffer. June 1999, National Semiconductor, Santa Clara, CA		
	FE	NATIONAL SEMI, LH4118 Low Gain Wide Band RF Amplifier, Oct 1988, National Semiconductor, Santa Clara, CA		
	FF	TIMOTHY T. REGAN, AN-278 Designing with a New Super Fast Dual Norton Amplifier, Sept 1981, National Semiconductor, Santa Clara, CA		
	FG	NATIONAL, AN-72 The LM3900: A New Current-Differencing . . . Amplifiers, Sept 1972, Pages 1-10, National Semiconductor, Santa Clara, CA		
	FH	NATIONAL. Comlinear High-Speed Analog and Mixed-Signal Databook, Items & pages #'s to follow, 1997, National Semiconductor, Santa Clara, CA		
		LM6171 High Speed . . . Voltage Feedback Amplifier, pages 4-243 => 4-268 LM6181 100 mA, 100 Mhz Current Feedback Amplifier, pages 4-269 => 4-285		
		LM7171 Very High Speed . . . Voltage Feedback Amp, pages 4-344 => 4-357		

Examiner Signature	Date Considered
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**INFORMATION DISCLOSURE  
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Sheet

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of

7

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Sheet	5	of	7	Attorney Docket Number
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	FH cont	CLC400 Fast Settling . . . Op Amp, pages 4-20 => 4-23 CLC401 Fast Settling . . . Op Amp, pages 4-24 => 4-27	
		CLC410 Fast Settling . . . Op Amp, pages 4-60 => 4-65 Other datasheets corresponding to SPICE Models from OA-18 above item # FB: as listed on page 2 of reference FB (OA-18) above.	
	GA	NATIONAL SEMI, LM6142 . . . Op Amps, National Op Amp Databook, 1995, pages 1-504 => 1-514, RRD/RRD150M95, National Semi, Santa Clara, CA	
	GB	LINEAR TECHNOLOGY, LT1206 250mA/60Mhz CFA, 6/24/93, LT/GP 0993 10K Rev 0, Linear Technology, Milpitas, CA	
	GC	LINEAR TECHNOLOGY, LT1217 Low Power 10Mhz CFA, BA/GP 0192 10K Rev 0, Linear Technology, Milpitas, CA	
	GD	LINEAR TECHNOLOGY, LT1223 100Mhz CFA, BA/GP 0791 10K Rev 0, Linear Technology, Milpitas, CA	
	GE	LINEAR TECHNOLOGY, LT1227 140Mhz Video CFA, LT/GP 0892 10K Rev 0, Linear Technology, Milpitas, CA	
	GF	LINEAR TECHNOLOGY, LT1228 100Mhz CFA w/ DC Gain Control, BA/GP 0192 10K Rev 0, Linear Technology, Milpitas, CA	
	GG	LINEAR TECHNOLOGY, LT1230 Dual & Quad 100Mhz CFA, BA/GP 0192 10K Rev 0, Linear Technology, Milpitas, CA	

Examiner Signature	Date Considered
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.  
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

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of

7

Complete If Known	
<b>Application Number</b>	10/627,670
<b>Filing Date</b>	07/28/2003
<b>First Named Inventor</b>	Ted Humphrey
<b>Art Unit</b>	2817
<b>Examiner Name</b>	
Attorney Docket Number	

<b>NON PATENT LITERATURE DOCUMENTS</b>		
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	HA	<b>LINEAR TECHNOLOGY, LT1252 Low Cost Video Amplifier, 10/1992</b> <b>LT/GP 0293 10K Rev 0, Linear Technology, Milpitas, CA</b>
	HB	<b>LINEAR TECHNOLOGY, LT1351 250uA, 3Mhz, 200 . . . Op Amp,</b> <b>Linear Technology, Milpitas, CA</b>
	HC	<b>LINEAR TECHNOLOGY, LT1360 50 Mhz, 800V/us Op Amp, 1994</b> <b>LT/GP 0494 10K, Linear Technology, Milpitas, CA</b>
	HD	<b>LINEAR TECHNOLOGY, LT1813 Dual 3mA . . . Op Amp, 1999</b> <b>1813f LT/TP 0999 40K, Linear Technology, Milpitas, CA</b>
	HE	<b>ANDREAS HAHN, Application of Rail-to-Rail Op Amps, Dec 1999,</b> <b>SLOA039A, Texas Instruments, Dallas, TX</b>
	HF	<b>JAMES KARKI, Voltage Feedback vs Current Feedback Op Amps, Nov 1998,</b> <b>SLVA051, Texas Instruments, Dallas, TX</b>
	HG	<b>TI, THS3001 140-Mhz High-Speed CFA, July 1998, SLOS217,</b> <b>Texas Instruments, Dallas, TX</b>
	HH	<b>TI, THS4150/4151 High-Speed Differential I/O Amps, May 2000Rev Jan 2004,</b> <b>SLOS3210, Texas Instruments, Dallas, TX</b>
	HI	<b>BURR BROWN (TI), OPA603 High Speed, Current-Feedback Op Amp, May 1991,</b> <b>PDS1026B, Burr Brown (now Texas Instruments), Tucson, AZ</b>
	HJ	<b>BURR BROWN (TI), OPA622 Wide-Bandwidth Op Amp, Oct 1992,</b> <b>PDS-1131A, Burr Brown (now Texas Instruments), Tucson, AZ</b>

Examiner Signature		Date Considered
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Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	IA	BURR BROWN (TI), OPA623 Wide Bandwidth, Current-Feedback Op Amp, Dec 1992, PDS-1132A, Burr Brown (now Texas Instruments), Tucson, AZ	
	IB	KLAUS LEHMANN, AB-180 Ultra High-Speed ICs, Burr-Brown IC Application Handbook, 1994, pages 244-248, LI-459, Burr Brown (now TI), Tucson, AZ	
	IC	BURR BROWN (TI), OPA660 Wide Bandwidth, Operational Transconductance Amp & Buffer, Sept 1991, PDS-1072B, Burr Brown (now TI), Tucson, AZ	

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